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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/057,154	01/25/2002	Kurt Gross	GR 01 P 0922	2489
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LERNER AND GREENBERG, P.A.			EXAMINER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examin r			Application No.	Applicant(s)				
Alexander O Williams 2826	Office Action Summary		10/057,154	GROSS ET AL.				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. E detendance for this may be a validation and of 3 of 2R 1.136(b). In or event, however, may a reply be timely filed after SX (5) MONTHS from the mailing date of this communication. I this period from the part of the communication of 3 of 2R 1.136(b). In or event, however, may a reply be timely filed after SX (5) MONTHS from the mailing date of this communication. I this period from the part of the communication of 3 of 2R 1.136(b). In or event, however, may a reply be timely filed after SX (5) MONTHS from the mailing date of this communication of the communicati			Examin r	Art Unit				
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THE MALLING DATE OF THIS COMMUNICATION. Esteralizad in many be available under the provision of 3 CPR 1.15(g). In no event, however, may a reply be timely filed after SX (6) MONTHS from the mailing date of this communication. If this periods creally specified become is near than the Victory (200 days, comply whitin the statutory information (100 days) and the part of the provision of provision of provision of provision of the								
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-1 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a cepted or b objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies or provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
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Serial Number: 10/057154 Attorney's Docket #: GR01P0922

Filing Date: 1/25/02; claimed foreign priority to 1/25/01

Applicant: Gross et al.

Examiner: Alexander Williams

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Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the carrier includes a plate made if ceramic, said metal area is applied on said plate, and said chip has a contact area formed by said metal area in claim 7, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim 7 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 7, it is unclear and confusing to what is meant by "carrier 4 includes includes a plate made of ceramic, said metal area is applied on said plate, and said chip has a contact area formed by said metal area." Where is this shown and what part makes up the plate made of ceramic since claim 1 claims the carrier having a metal area essentially composed of copper?

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 to 7, **insofar as clam 7 can be understood**, are rejected under 35 U.S.C. § 103(a) as being unpatentable over Bareither et al. (U.S. Patent # 5,731,635).

Initially, it is noted that the 35 U.S.C. § 103 rejection based on the <u>buffer layers</u>, connection medium and a metallization <u>layer</u> deals with an issue (i.e., the integration of multiple pieces into one piece or conversely, using multiple pieces in replacing a single piece) that has been previously decided by the courts.

In <u>Howard v. Detroit Stove Works</u> 150 U.S. 164 (1893), the Court held, "it involves no invention to cast in one piece an article which has formerly been cast in two pieces and put together...."

In <u>In re Larson</u> 144 USPQ 347 (CCPA 1965), the term "integral" did not define over a multi-piece structure secured as a single unit. More importantly, the court went further and stated, "we are inclined to agree with the solicitor that the use of a one-piece construction instead of the [multi-piece]

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structure disclosed in Tuttle et al. would be merely a matter of obvious engineering choice" (bracketed material added). The court cited <u>In re Fridolph</u> for support.

In re Fridolph 135 USPQ 319 (CCPA 1962) deals with submitted affidavits relating to this issue. The underlying issue in In re Fridolph was related to the end result of making a multi-piece structure into a one-piece structure. Generally, favorable patentable weight was accorded if the one-piece structure yielded results not expected from the modification of the two-piece structure into a single piece structure.

For example, in claim 1, Bareither et al. (the figure) show a carrier and a chip configuration, comprising: a carrier 4 having a metal area essentially composed of copper; a chip 1 having a rear side metallization layer 21; a buffer layer 3,21-24 configured on said metal area, said buffer layer being essentially composed of nickel 23 and having a thickness between 5 to 10 micrometers; and a connection medium 21-24 for fixedly connecting said chip to said carrier (see column 3, lines 40-45); said chip being configured, without a chip housing, on said metal area such that only said connecting medium is configured between said rear side metallization layer of said chip and said buffer layer.

In claim 2, Bareither et al.'s buffer layer has a thickness between 7 to 9 micrometers.

In claims 3 and 4, Bareither et al. 's rear side metallization layer **21** is essentially composed of aluminum .

In claim 5, Bareither et al.'s buffer layer has a surface facing said chip, and said surface facing said chip, and said surface facing said chip includes a protective layer that is essentially composed of gold (see column 2, lines 7-18).

In claim 6, Bareither et al.'s carrier is essentially composed of gold (see column 1, lines 46-58).

In claim 7, Bareither et al.'s carrier 4 includes includes a plate made of ceramic, said metal area is applied on said plate, and said chip has a contact area formed by said metal area.

Therefore, it would have been obvious to one of ordinary skill in the art to use the <u>buffer layers</u>, connection medium and

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a metallization layer as "merely a matter of obvious engineering choice" as set forth in the above case law.

Where patentability is said to be based upon particular chosen dimensions or upon another variable recited in a claim, the Applicant must show that the chosen dimensions are critical. In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

The following references are cited as of interest to this application, but not applied at this time.

Field of Search	Date
U.S. Class and subclass: 257/703,700,701,702,676,765,763,766,769,758,771- 773,762 156/278	8/26/02
Foreign Documentation: foreign patents and literature in 257/703,700,701,702,676,765,763,766,769,758,771- 773,762 156/278	8/26/02
Electronic data base(s): U.S. Patents EAST	8/26/02

Papers related to this application may be submitted to Technology Center 2800 by facsimile transmission. Papers should be faxed to Technology Center 2800 via the Technology Center 2800 Fax center located in Crystal Plaza 4-5B15. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center 2800 Fax Center number is (703) 308-7722 or 24. Only Papers related to Technology Center 2800 APPLICATIONS SHOULD BE FAXED to the GROUP 2800 FAX CENTER.

Any inquiry concerning this communication or any earlier communication from the examiner should be directed to *Examiner Alexander Williams* whose telephone number is (703) 308-4863.

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Any inquiry of a general nature or relating to the status of this application should be directed to the *Technology Center 2800* receptionist whose telephone number is (703) 308-0956.

8/26/02

Primary Examiner
Alexander O. Williams